

# **BUFFALO**

**"BEST BUILT"**

# **STEAM PUMPS**

Sectional Edition A of Our

**CATALOG No. 227**

## **Small Duplex Pumps**

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**BUFFALO STEAM PUMP COMPANY**

**BUFFALO, N. Y., U. S. A.**

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**Manufacturers of Steam, Power and Centrifugal  
Pumping Machinery, Vacuum Pumps and Con-  
densers of Every Description For All Requirements**

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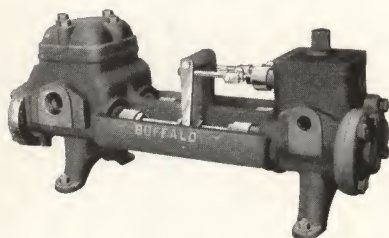
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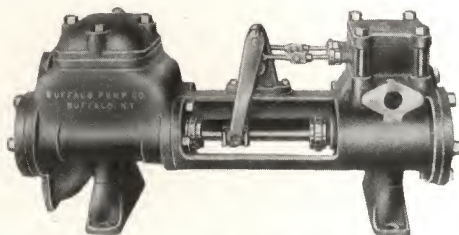


# Buffalo Duplex Boiler-Feed Pumps

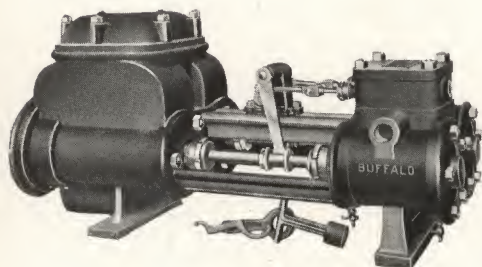
## Piston Pattern



**Fig. 704**  
Size, 3 x 2 x 3½

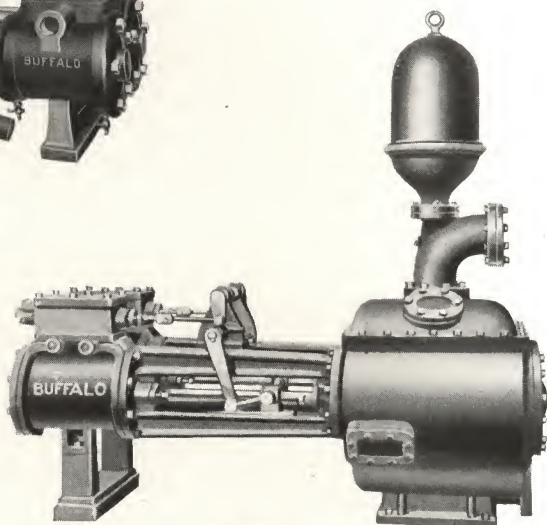


**Fig. 705**  
Size, 6 x 4 x 6



**Fig. 706**  
Size, 7½ x 5 x 8

**Note:**—Discharge Air Chamber furnished without extra charge on these 12" stroke pumps. Also 6 x 12 and 7 x 12 pumps have spool crosshead.



**Fig. 707**  
Size, 12 x 8 x 12



## Buffalo Duplex Boiler-Feed Pumps

### Piston Pattern. For 150 Pounds Maximum Pressure

The "Buffalo" pump offers the advantages of over thirty years' experience in building all types of pumping machinery. Exceedingly simple in design, all parts are accurately made of the most suitable materials and are interchangeable. Large stuffing boxes are provided, allowing ample packing space. The moving parts being of large dimensions, a minimum amount of wear and friction and proportionately longer life are assured.

Standard sizes and replacement parts can be shipped from stock.  
For Low Steam Pressure Pumps refer to next page.

Diameter Steam Cylinders	Diameter Water Pistons	Length of Stroke	Rated Piston Speed Feet per Minute	Rated Capacity Galls. per Minute	Horse Power Boiler Will Supply	Pipe Sizes				Approximate Width and Length Inches	Regular	Brass
						Steam	Exhaust	Suction	Discharge		Fitted	Fitted
											Code	Code
											Word	Word

This list similar to Fig. 704 and Fig. 705

If steam pressure is less than 60 lbs. use pumps, Fig. 708, next page.

3	2	3 1/2	35	11.4	50	1 1/2	3/4	1 1/4	1	10 x 28	<i>Dcach</i>	<i>Dcdue</i>
3 1/2	2 1/4	4	35	14.4	80	1 1/2	3/4	1 1/2	1 1/4	11 x 30	<i>Dcdas</i>	<i>Dcdol</i>
4 1/2	2 3/4	4	35	21.5	125	1 1/2	3/4	2	1 1/2	13 x 30	<i>Dcalb</i>	<i>Dcdsi</i>
5 1/4	3 1/2	5	40	40	200	3/4	1	2 1/2	2	16 x 40	<i>Dcang</i>	<i>Dcdum</i>
5 1/4	3 1/2	6	50	50	250	1 1/4	1 1/4	2 1/2	2	19 x 44	<i>Dcard</i>	<i>Dcdwo</i>
6	4	6	50	65	400	1	1 1/2	3	2	17 x 42	<i>Dcast</i>	<i>Dcdyn</i>

This list similar to Fig. 706.

7	4	8	65	85	500	1	1 1/2	3	2	20 x 53	<i>Dcbaf</i>	<i>Dceft</i>
7 1/2	4 1/2	8	65	107	600	1 1/2	2	4	3	22 x 54	<i>Dcbeg</i>	<i>Dcele</i>
7 1/2	5	8	65	132	700	1 1/2	2	4	3	22 x 54	<i>Dcbfo</i>	<i>Dceend</i>
7 1/2	4 1/2	10	75	124	700	1 1/2	2	4	3	23 x 61	<i>Dcbih</i>	<i>Dcerk</i>
7 1/2	5	10	75	153	900	1 1/2	2	4	3	23 x 61	<i>Dcbju</i>	<i>Dcess</i>
9	5 1/4	10	75	168	1000	2	2 1/2	5	4	27 x 68	<i>Dcbmy</i>	<i>Dcfaj</i>
10	6	10	75	219	1400	2	2 1/2	5	4	27 x 68	<i>Dcboj</i>	<i>Dcfby</i>
10	7	10	75	300	2000	2	2 1/2	6	5	27 x 68	<i>Dcbso</i>	<i>Dcfek</i>

This list similar to Fig. 707.

12	6	12	80	233	1500	2 1/2	3	6	5	31 x 94	<i>Dcbuk</i>	<i>Dcfga</i>
12	7	12	80	320	2100	2 1/2	3	6	5	31 x 94	<i>Dcbue</i>	<i>Dcfil</i>
12	8	12	80	418	2700	2 1/2	3	8	6	33 x 94	<i>Dcbye</i>	<i>Dcfke</i>
14	8	12	80	418	2700	3	4	8	6	36 x 94	<i>Dcdah</i>	<i>Dcfui</i>
12	8 1/2	12	80	470	3000	2 1/2	3	8	6	36 x 94	<i>Dcdbu</i>	<i>Dcfom</i>
14	8 1/2	12	80	470	3000	3	4	8	6	36 x 94	<i>Dcdetj</i>	<i>Dcfso</i>
14	9	12	80	529	3200	3	4	8	6	36 x 94	<i>Dcdfy</i>	<i>Dcfun</i>
14	10	12	80	653	4000	3	4	10	7	42 x 98	<i>Dcdik</i>	<i>Dcfwu</i>
16	10	12	80	653	4000	3	4	10	7	42 x 98	<i>Dcdka</i>	<i>Dcfxp</i>





## Buffalo Duplex Automatic Feed Pumps and Receivers

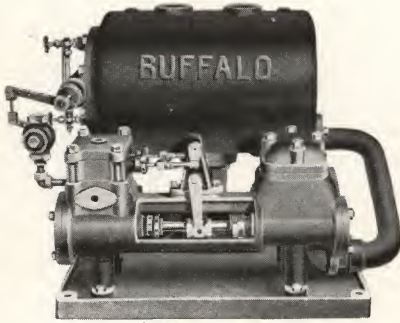


Fig. 712  
Size,  $4\frac{1}{2} \times 2\frac{3}{4} \times 4$

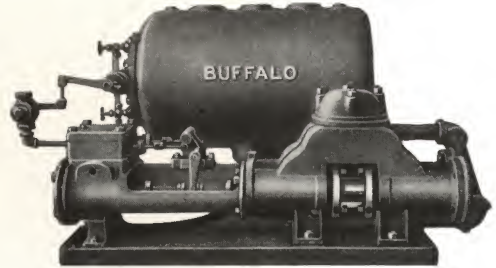


Fig. 714  
Size,  $4\frac{1}{2} \times 2\frac{3}{4} \times 4$

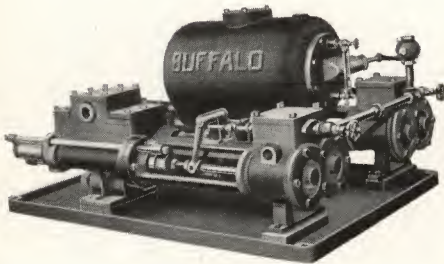


Fig. 715  
Special Pump and Receiver outfit.  
Prices on application.



Fig. 716  
Size,  $2\frac{3}{4} \times 4$



# BUFFALO PUMPS

CATALOG No. 227



## Buffalo Duplex Automatic Feed Pumps and Receivers

The unit consists of a suitably constructed cast-iron receiving tank, mounted in combination with a Boiler Feed Pump on a common bed plate. The tank is mounted slightly above the pump, giving a sufficient head of water above the suction valves to insure the pump always receiving a full supply of water.

Within the tank is provided a float connected to a chronometer valve controlling the steam supply to the pump. Inflowing water causes float to rise, thereby opening the steam supply and starting the pump. When the water level has been lowered, the float automatically cuts off the steam. In this way the condensation water is returned to the boiler as fast as it accumulates.

In requesting prices on Electric Pumps and Receivers give details of electric current available and pressure pump is to discharge against.

Propositions on Centrifugal Pumps and Receivers on receipt of details.

Diameter Steam Cylinders	Diameter Water Pistons	Length of Stroke	Pump Capacity Galls. Minute	Sq. Feet Radiators Surface Apparatus Will Drain	Approximate Width and Length Inches	Number Openings in Receiver for Return Drip	Size Tapped Openings Top of Receiver for Return Drip	Regular	Brass
								Fitted	Fitted
								Code	Code
								Word	Word

With standard boiler feeders. \* Fig. 712

3	2	3½	10	5000	24 x 30	1	2½	<i>Dclpe</i>	<i>Dcnir</i>
4½	2¾	4	20	10000	32 x 46	2	2½	<i>Dclti</i>	<i>Dcnli</i>
5¼	3½	5	40	20000	34 x 54	3	2½	<i>Dclw</i>	<i>Dcnw</i>
5¼	3½	6	45	25000	34 x 54	3	2½	<i>Dclwp</i>	<i>Dcnw</i>
6	4	6	60	40000	34 x 54	3	2½	<i>Dclxo</i>	<i>Dcntu</i>
7	4	8	80	50000	40 x 65	3	2½	<i>Delyn</i>	<i>Dcnux</i>
7½	4½	8	100	60000	40 x 65	3	2½	<i>Demar</i>	<i>Dcnzy</i>

With low-steam pressure pumps. Fig. 708. Page 10.

3	1½	3½	6	3000	24 x 30	1	2½	<i>Demey</i>	<i>Dcnyz</i>
4½	2	4	11	6000	32 x 46	2	2½	<i>Demha</i>	<i>Dcoct</i>
6	2	6	16	9000	34 x 54	3	2½	<i>Demle</i>	<i>Dcolf</i>
7½	2½	6	25	15000	38 x 56	3	2½	<i>Demov</i>	<i>Dcoms</i>

With outside center-packed pumps. Fig. 714.

4½	2¾	4	20	10000	32 x 52	2	2½	<i>Dcmpi</i>	<i>Dcorg</i>
5¼	3½	6	45	25000	34 x 62	3	2½	<i>Dcmto</i>	<i>Dcosk</i>
6	4	6	60	40000	34 x 62	3	2½	<i>Dcmuw</i>	<i>Dcoth</i>
7½	4½	10	100	60000	30 x 94	3	2½	<i>Dcmxu</i>	<i>Dcpbt</i>

With power pumps. Fig. 716.

	2	4	10	5000	Depends on Motor	1	2½	<i>Dcmvx</i>	<i>Dcpde</i>
	2¾	4	20	10000		2	2½	<i>Dcnas</i>	<i>Dcpfi</i>
	3½	6	45	20000		3	2½	<i>Denda</i>	<i>Dcpiv</i>
	4	6	60	40000		3	2½	<i>Dcnet</i>	<i>Dcplo</i>
	4½	8	80	50000		3	2½	<i>Dcnhe</i>	<i>Dcpox</i>



## Buffalo Underwriter Fire Pumps

In Accordance with Latest Specifications of Underwriters

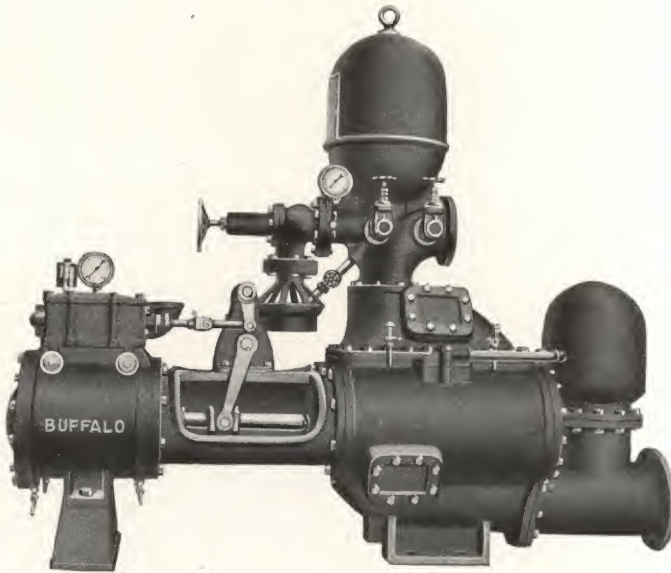


Fig. 726

Size, 18 x 10 x 12

**Note:**—In ordering, forward to our factory at North Tonawanda, N. Y., a hose coupling to be used as template for threading hose valves on pumps, as different cities have different hose coupling standards. The template sent us should be carefully marked for identification and will be returned with the pump.





## Buffalo Duplex Underwriter Fire Pumps

"Underwriter Pump" is the name adopted by the Associated Factory Mutual Fire Insurance companies, to designate a duplex steam fire pump, built in strict accordance with the latest revised edition of the specifications issued by them.

The principal points of difference between the Underwriter Pump and the ordinary commercial pump are:

1st—Its steam ports and water passages and air chamber are made much larger than in common trade pumps, so that a larger volume of water can be delivered in an emergency without water hammer.

2nd—It is "rust-proofed," that it may start instantly after disuse, by making its piston rods and valve rods of tobin bronze, instead of steel; its water pistons, stuffing boxes and rock shaft bearings of brass, instead of cast iron. Its valve levers are made of steel or wrought-iron forgings, or of steel castings.

3rd—The following necessary attachments are all included in the price of the Underwriter Pump, viz.: A vacuum chamber, two pressure gauges, a relief valve, a set of brass priming pipes, 2 to 6 hose valves, a stroke gauge, a capacity plate, an oil pump, a sight-feed lubricator and a cast-iron relief valve discharge cone and air vent connection.

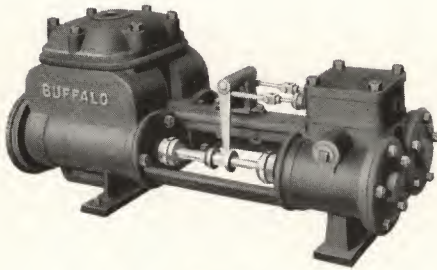
To maintain 100 pounds water pressure while operating at full speed this pump requires the following boiler horse power: 500 gallon pump, 100 H. P. at 40 pounds steam pressure; 750 gallon pump, 115 H. P. at 45 pounds; 1000 gallon pump, 150 H. P. at 45 pounds, and the 1500 gallon pump, 200 H. P. at 50 pounds steam pressure. In some instances it is advisable to install a larger pump than the existing boiler can drive at full capacity, as a small boiler will drive a 750 gallon pump at the 500 gallon speed with as good economy as it can drive the 500 gallon pump at full speed. When this is done, the pump does not need to be changed when the plant is enlarged and the boiler power increased.

Number of Gallons Underwriters' Rating	Diameter of Steam Cylinders	Diameter of Water Plungers	Length of Stroke	Number of Revolutions per Minute	Pipe Sizes				Approximate Width and Length Inches	Code Word Brass Fitted Including All Fittings
					Steam	Exhaust	Suction	Discharge		
500	14	7	12	70	3	4	8	6	37 x 110	<i>Djkl</i>
750	16	9	12	70	3½	4	10	8	42 x 114	<i>Djkt</i>
1000	18	10	12	70	4	5	12	8	48 x 120	<i>Djke</i>
1500	20	12	16	60	5	6	14	10	52 x 146	<i>Djkt</i>

Prices include fittings as specified by Underwriters.

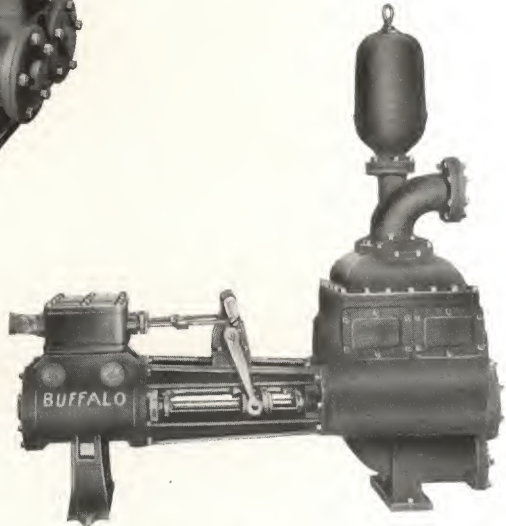


## Buffalo Duplex Piston-Pattern Tank Pumps

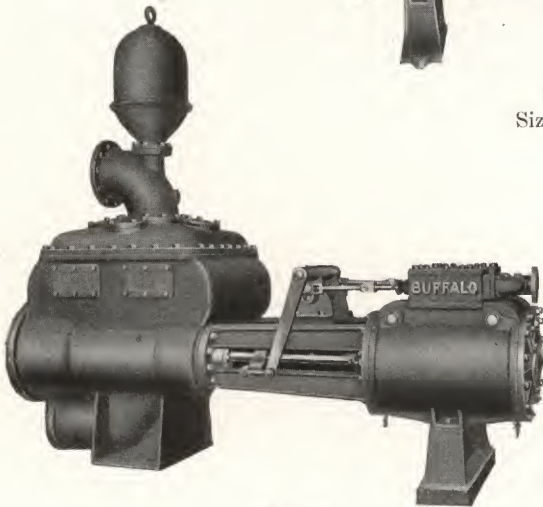


**Fig. 736**  
Size, 6 x 5 $\frac{3}{4}$  x 6

Discharge Air Chamber furnished without extra charge on these 12" and 18" stroke pumps



**Fig. 737**  
Size, 10 x 9 x 12



**Fig. 739**  
Size, 20 x 18 x 18





# BUFFALO PUMPS

CATALOG No. 227



## Buffalo Duplex Tank or Light-Service Pumps

### Piston Pattern. For 75 Pounds Maximum Pressure

For light service, such as pumping water or other liquids short distances and limited heights, these pumps are both economical and effective. They combine large pumping capacity with small expenditure of steam, the cylinders being proportioned accordingly. They are principally used at railroad water stations, reservoirs, gas and oil works, bleacheries, tanneries, refineries, plantations, distilleries, chemical works, etc.

We can furnish valves in these pumps suitable for pumping hot, cold, thin, thick, alkaline or acidulous liquids, varying in gravity from alcohol to white lead, at small extra charge.

For quarries, clay pits, cofferdams, tunnels, foundation pits, ore beds, sewerage and irrigation purposes, these pumps are especially adapted, having large water passages and valve openings.

Diameter Steam Cylinders	Diameter Water Pistons	Length of Stroke	Rated Piston Speed Feet Per Minute	Rated Capacity Galls. Per Minute	Pipe Sizes				Approximate Width and Length Inches	Regular Fitted Code Word	Brass Fitted Code Word
					Steam	Exhaust	Suction	Discharge			

This list similar to Fig. 736

4 1/2	3 3/4	4	35	40	1 1/2	3/4	2 1/2	2	14 x 35	Dgaba	Dgifo
5 1/4	4 3/4	6	50	92	3/4	1 1/4	3	2 1/2	17 x 46	Dgaed	Dgifu
6	4 3/4	6	50	92	1	1 1/2	3	2 1/2	17 x 46	Dgafe	Dgimy
5 1/4	5 3/4	6	50	134	3/4	1 1/4	4	3	20 x 48	Dgarij	Dgiol
6	5 3/4	6	50	134	1	1 1/2	4	3	20 x 48	Dgarij	Dgisa
7 1/2	6	8	65	190	1 1/2	2	5	4	24 x 57	Dgamo	Dgiuk
7 1/2	6	10	75	219	1 1/2	2	5	4	24 x 61	Dgaog	Dgiwe
7 1/2	7	10	75	300	1 1/2	2	6	5	24 x 65	Dgaru	Dgoag

This list similar to Fig. 737

7 1/2	8 1/2	12	80	470	1 1/2	2	8	6	36 x 74	Dgauh	Dgobo
9	8 1/2	12	80	470	2	2 1/2	8	6	36 x 74	Dgavy	Dgoeh
10	9	12	80	529	2	2 1/2	8	6	36 x 74	Dgarij	Dgoju
7 1/2	10	12	80	653	1 1/2	2	8	6	36 x 78	Dgead	Dgoij
9	10	12	80	653	2	2 1/2	8	6	36 x 78	Dgebe	Dgoiy
10	10	12	80	653	2	2 1/2	8	6	36 x 78	Dgeji	Dgona

This list similar to Fig. 731. Page 20

9	12	12	80	939	2	2 1/2	10	8	44 x 90	Dgeig	Dgose
10	12	12	80	939	2	2 1/2	10	8	44 x 90	Dgeio	Dgoui
12	12	12	80	939	2 1/2	3	10	8	44 x 90	Dgemu	Dgowl
12	14	12	80	1278	2 1/2	3	12	10	46 x 92	Dgeoh	Dgoym
14	14	12	80	1278	3	4	12	10	46 x 92	Dgery	Dguah

This list similar to Fig. 739

14	16	18	100	2088	3	4	14	12	56 x 120	Dgeui	Dgubu
16	16	18	100	2088	3	4	14	12	56 x 120	Dgeui	Dguei
14	18	18	100	2644	3	4	14	12	56 x 120	Dgeyk	Dgufy
16	18	18	100	2644	3	4	14	12	56 x 120	Dgiaf	Dguik
18	18	18	100	2644	3	4	14	12	56 x 120	Dgibi	Dguka
20	18	18	100	2644	4	5	14	12	56 x 120	Dgieg	Dgune



## Buffalo Duplex Outside Center-Packed Plunger Pumps

For Boiler Feeding and General Service

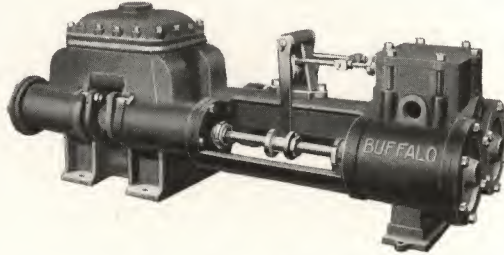


Fig. 742  
Size, 9 x 5 x 10

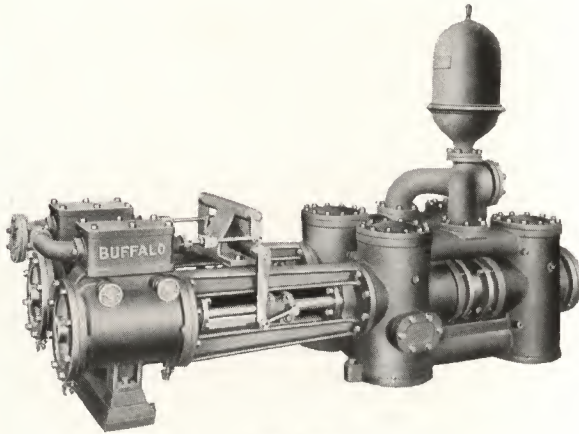


Fig. 743  
Size, 12 x 8½ x 12

Discharge Air Chambers furnished without extra charge on these 12" and 18" stroke pumps. 6 x 12 and 7 x 12 have spool crossheads. Note catch basin for drip from plunger glands, Fig. 743.



## Buffalo Duplex Outside Center-Packed Plunger Pumps

For 200 Pounds Maximum Pressure

This type of pump is less liable to wear when handling muddy or gritty liquids than either the packed piston or plunger and ring design. The steam ends are the style as used in our other duplex pumps, but the water ends are designed for a water pressure of 200 pounds, and being constructed with external stuffing boxes they can easily be looked after from the outside. Glands are simple, allow ample packing space and are easily accessible.

These machines will be found especially desirable in any class of service where a pressure in excess of 150 pounds is maintained.

For these pumps with compound steam cylinders see Fig. 746 and Fig. 747 on next page.

Diameter Steam Cylinders	Diameter Water Plungers	Length of Stroke	Rated Piston Speed Feet per Minute	Rated Capacity Galls. per Minute	Pipe Sizes				Approximate Width and Length Inches	Regular	Brass
					Steam	Exhaust	Suction	Discharge		Fitted	Fitted
										Code	Code
										Word	Word

This list similar to Fig. 742.

4 1/2	2 3/4	4	35	21.5	1 1/2	3/4	2	1 1/2	14 x 48	<i>Dkabs</i>	<i>Dkbso</i>
5 1/4	3 1/2	6	50	50	3/4	1 1/4	2 1/2	2	16 x 63	<i>Dkagh</i>	<i>Dkbun</i>
6	4	6	50	65	1	1 1/2	3	2	18 x 64	<i>Dkahi</i>	<i>Dkbwu</i>
7 1/2	4 1/2	10	75	124	1 1/2	2	4	3	22 x 80	<i>Dkajd</i>	<i>Dkbyp</i>
9	5	10	75	153	2	2 1/2	5	4	25 x 86	<i>Dkalm</i>	<i>Dkcel</i>
10	5	10	75	153	2	2 1/2	5	4	25 x 86	<i>Dkamg</i>	<i>Dkege</i>

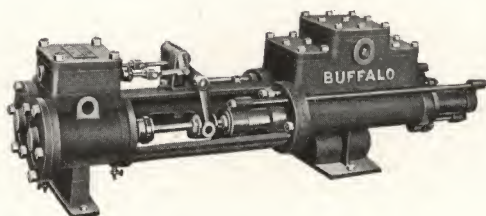
This list similar to Fig. 743.

10	6	12	80	233	2	2 1/2	6	5	31 x 105	<i>Dkant</i>	<i>Dkcim</i>
10	7	12	80	320	2	2 1/2	6	5	31 x 105	<i>Dkapf</i>	<i>Dkcki</i>
12	7	12	80	320	2 1/2	3	6	5	33 x 105	<i>Dkarp</i>	<i>Dkcno</i>
12	8 1/2	12	80	470	2 1/2	3	8	6	40 x 108	<i>Dkask</i>	<i>Dkcos</i>
14	8 1/2	12	80	470	3	4	8	6	42 x 108	<i>Dkavz</i>	<i>Dkcsu</i>
14	9	12	80	529	3	4	10	8	48 x 118	<i>Dkbaj</i>	<i>Dkbpm</i>
14	10	12	80	653	3	4	10	8	48 x 118	<i>Dkbeq</i>	<i>Dkewy</i>
16	10	12	80	653	3	4	10	8	48 x 118	<i>Dkbqa</i>	<i>Dkcyr</i>
18	10	12	80	653	3	4	10	8	48 x 118	<i>Dkbil</i>	<i>Dkdal</i>
18	12	18	100	1174	3	4	12	10	54 x 134	<i>Dkbke</i>	<i>Dkdce</i>
20	12	18	100	1174	4	5	12	10	54 x 134	<i>Dkbni</i>	<i>Dkdem</i>
20	14	18	100	1598	4	5	12	10	54 x 134	<i>Dkbom</i>	<i>Dkdgi</i>



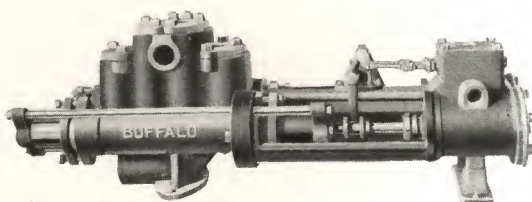


## Buffalo Duplex Outside End-Packed Plunger Pumps



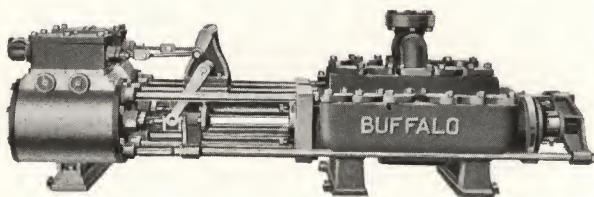
**Fig. 749**

Size,  $6 \times 3 \frac{1}{2} \times 6$



**Fig. 750**

Size,  $7 \frac{1}{2} \times 4 \frac{1}{2} \times 8$



**Fig. 751**

Size,  $12 \times 6 \times 12$

**Note:**—Steam Cylinders lagged with Russia Iron, similar to Fig. 751, at extra cost only. Cushion Valves furnished only on 12" stroke sizes.



## Buffalo Duplex Outside End-Packed Plunger Pumps

**For Boiler Feeding and General Service  
For 300 Pounds Maximum Pressure**

On opposite page we show our improved heavy-pressure duplex pumps. These machines are built from extra-heavy patterns for the hardest service. High pressures on modern boilers have compelled the production of a type which can easily handle from 150 pounds up, and this machine has been constructed to meet this demand, as well as that for any special heavy service. Particular attention has been given the construction of all parts, as the work for which they are intended is much more severe than ordinary. If pressure in excess of 300 pounds is to be handled we furnish another specially-built machine with cast or forged steel water ends, which is covered by our extra-heavy pressure design, illustrated and listed elsewhere.

Diameter Steam Cylinders	Diameter Water Plungers	Length of Stroke	Rated Piston Speed Feet per Minute	Rated Capacity Galls. per Minute	Pipe Sizes				Approximate Width and Length Inches	Regular Fitted Code Word	Brass Fitted Code Word
					Steam	Exhaust	Suction	Discharge			

This list similar to Fig. 749.

4 1/2	1 1/2	4	35	6.4	1 1/2	3/4	1 1/2	1	14 x 48	Dkfus	Dkxso
4 1/2	2	4	35	11.4	1 1/2	3/4	1 1/2	1	14 x 48	Dkfje	Dkhyw
5 1/4	3	6	50	36.7	3/4	1 1/4	3	2	18 x 72	Dkfyt	Dkibz
6	3	6	50	36.7	1	1 1/2	3	2	18 x 72	Dkgan	Dkijk
6	3 1/2	6	50	50	1	1 1/2	3	2	18 x 72	Dkgeo	Dkigd
6	4	6	50	65	1	1 1/2	3	2	18 x 72	Dkgep	Dkihl

This list similar to Fig. 750.

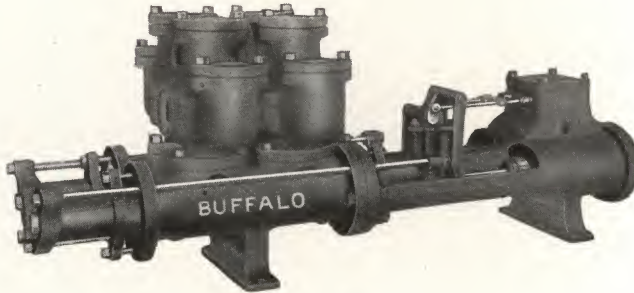
7 1/2	4	8	65	85	1 1/2	2	4	3	24 x 83	Dkgir	Dkiks
7 1/2	4 1/2	8	65	107	1 1/2	2	4	3	24 x 83	Dkgky	Dkilo
7 1/2	4 1/2	10	75	124	1 1/2	2	4	3	24 x 87	Dkgos	Dkinc

This list similar to Fig. 751.

9	4 1/2	10	75	124	2	2 1/2	5	4	27 x 100	Dkgpa	Dkipt
10	4 1/2	10	75	124	2	2 1/2	5	4	27 x 100	Dkpte	Dkirm
10	5	10	75	153	2	2 1/2	5	4	27 x 100	Dkgut	Dkisf
10	6	10	75	219	2	2 1/2	5	4	26 x 106	Dkxi	Dkiup
12	6	12	80	233	2 1/2	3	6	5	41 x 126	Dkgyv	Dkjar
12	7	12	80	320	2 1/2	3	6	5	41 x 126	Dkhap	Dkicy
12	7 1/2	12	80	366	2 1/2	3	6	5	41 x 126	Dkhcu	Dkjcs



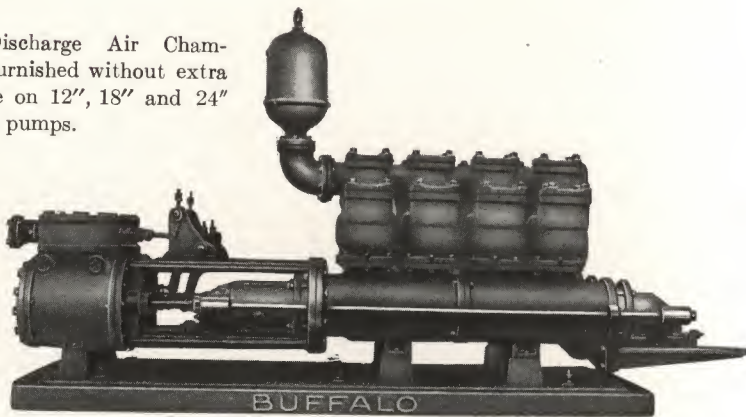
## Buffalo Duplex Valve Pot Outside End-Packed Pumps



**Fig. 754**

Size,  $7\frac{1}{2} \times 4\frac{1}{2} \times 10$

Discharge Air Chambers furnished without extra charge on 12", 18" and 24" stroke pumps.



**Fig. 755**

Size,  $16 \times 9 \times 12$

Bed Plates furnished at extra price only.





# BUFFALO PUMPS

CATALOG No. 227



## Buffalo Duplex Valve Pot Outside End-Packed Pumps

For 300 Pounds Maximum Pressure

In these pumps, each valve being in a separate pot with its individual cover may be quickly inspected and removed without disturbing any other part of the pump.

In the table below are listed pumps with simple steam ends, but on the larger sizes where steam economy may be of importance we recommend the use of compound steam cylinders. Prices on these machines will be furnished on request. See list of sizes on page 37. If desired, the exhaust may be into a Buffalo Condenser. Catalog and recommendations on request.

Diameter Steam Cylinders	Diameter Water Plungers	Length of Stroke	Number Pots For each Plunger	Rated Piston Speed Feet per Minute	Rated Capacity Galls. per Minute	Pipe Sizes				Approximate Outside Dimensions Inches	Regular	Brass
						Steam	Exhaust	Suction	Discharge		Fitted	Fitted
											Code	Code
											Word	Word

This list similar to Fig. 754.

5 1/4	3 1/2	6	1	50	50	3/4	1 1/4	3	2	24 x 62	Dqbxk	Dqdtm
6	4	6	1	50	65	1	1 1/2	3	2	24 x 62	Dqbyn	Dqdts
7 1/2	4	8	1	65	85	1 1/2	2	4	3	30 x 86	Dqcaj	Dqdup
7 1/2	4 1/2	8	1	65	107	1 1/2	2	4	3	30 x 86	Dqcbj	Dqdwy
7 1/2	4	10	1	75	98	1 1/2	2	4	3	30 x 86	Dqcek	Dqdtyr
7 1/2	4 1/2	10	1	75	124	1 1/2	2	4	3	30 x 86	Dqcca	Dqect
9	4 1/2	10	1	75	124	2	2 1/2	4	3	30 x 88	Dqcil	Dqelf
10	4 1/2	10	1	75	124	2	2 1/2	4	3	30 x 88	Dqcke	Dqems
9	5	10	1	75	153	2	2 1/2	5	4	36 x 90	Dqcnj	Dqerg
10	6	10	1	75	219	2	2 1/2	5	4	36 x 90	Dqcom	Dqesk
12	5	12	1	80	163	2 1/2	3	5	4	36 x 90	Dqcso	Dqeth
12	6	12	1	80	233	2 1/2	3	5	4	36 x 90	Dqcun	Dqjal
14	6 1/2	12	1	80	275	3	4	6	5	36 x 90	Dqcwu	Dqjce
14	7 1/2	12	1	80	366	3	4	6	5	40 x 100	Dqcyp	Dqjem

This list similar to Fig. 755.

These sizes also made in 18" stroke.

14	7 1/2	12	2	80	366	3	4	7	6	50 x 160	Dqdak	Dqjgi
16	8	12	2	80	418	3	4	7	6	60 x 160	Dqdca	Dqjin
16	8 1/2	12	2	80	470	3	4	8	6	60 x 166	Dqdel	Dqjko
18	9	12	2	80	529	3	4	8	6	60 x 166	Dqdge	Dqjnu
20	9	12	2	80	529	4	5	8	6	60 x 170	Dqdim	Dqjop
18	10	12	2	80	653	3	4	8	6	60 x 166	Dqdki	Dqjsy
20	10	12	2	80	653	4	5	8	6	60 x 170	Dqdno	Dqjfur

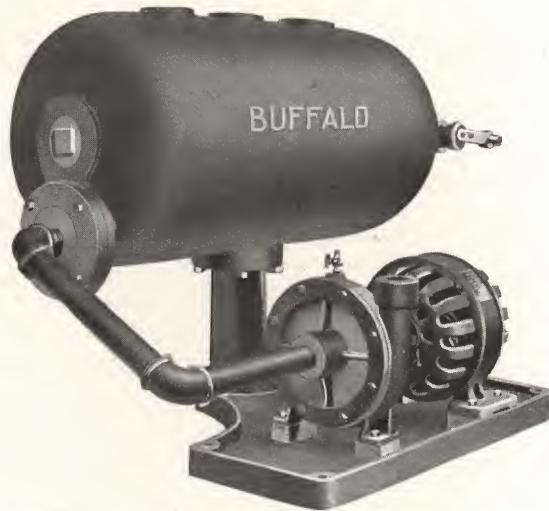
These sizes also made in 24" stroke. Fig. 755.

20	12	18	3	100	1174	4	5	12	10	74 x 190	Dqdon	Dqjxa
20	14	18	3	100	1598	4	5	12	10	74 x 190	Dqdsu	Dqjys



## BUFFALO PUMPS

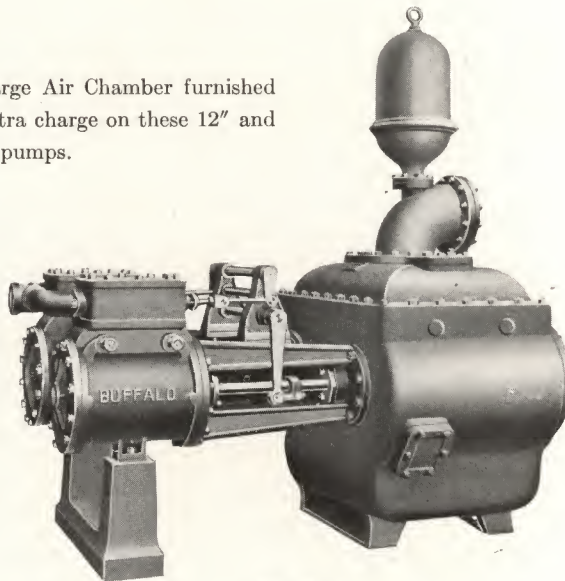
CATALOG No. 227



**Buffalo Centrifugal Electric Pump and Receiver for Low-Pressure Steam Installations, where Steam Pressure will not Operate Steam Pump.**

(Inquiries should state electric current available.)

Discharge Air Chamber furnished without extra charge on these 12" and 18" stroke pumps.



**Fig. 731**

Size, 14 x 14 x 12

**Buffalo Duplex Tank Pump**